Computational Condensed Matter

AIMS AND SCOPE

The journal covers **computational modeling** of **materials properties** and **phenomena**, ranging from the synthesis, characterization and processing of materials, structures and devices to the numerical methodology of materials simulations.

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Any contributions on quantum, classical and statistical mechanical studies, such as, but not limited to:

• First-principle calculations
• Density-functional theory
• Atomic and molecular-scale simulations, e.g. Monte Carlo and Molecular Dynamics techniques
• Semi-empirical, e.g. tight-binding, ab-initio methods and embedded-atom methods
• Other modeling techniques using macroscopic input, e.g. FE-methods.

Any contributions on properties of materials including electronic, magnetic, dynamical, transport, mechanical, growth, formation process and thermo-dynamical properties of nanoscale systems and materials such as but not limited to:

• Metals and alloys,
• Semiconductors, insulators, superconductors,
• Biomaterials, polymers, ceramics
• Composites in liquid, crystal, amorphous and cluster-like states.

Editor-in-Chief

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